

## EAST Search History

| Ref # | Hits  | Search Query                                  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|-------|---|---|------------------|---------|------------------|
| S1    | 2     | ("6400004").PN.                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/06/14 07:30 |
| S2    | 938   | lead adj frame and singulation                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/02/11 11:01 |
| S3    | 1781  | diamond adj blade                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/02/11 12:09 |
| S4    | 5     | S2 and S3                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/02/11 11:02 |
| S5    | 1     | ("4860075").PN.                               | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR               | ON      | 2006/02/11 11:04 |
| S6    | 2     | ("5286679").PN.                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/02/11 11:04 |
| S7    | 202   | ("5286679").URPN.                             | USPAT   | OR               | ON      | 2006/02/11 11:05 |
| S8    | 17    | resin adj saw                                 | USPAT   | OR               | ON      | 2006/02/11 11:11 |
| S9    | 13747 | (diamond same blade) or<br>(diamond same saw) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/02/11 11:13 |
| S10   | 53323 | cooling adj fluid                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/02/11 12:10 |

## EAST Search History

|     |       |   |   |    |    |                  |
|-----|-------|---|---|----|----|------------------|
| S11 | 197   | S9 and S10  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/11 11:13 |
| S12 | 64992 | lead adj frame  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/11 11:13 |
| S13 | 4     | S11 and S12   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/11 11:16 |
| S14 | 5612  | quad adj flat   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/11 11:16 |
| S15 | 38    | S9 and S14  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/11 11:22 |
| S16 | 96    | (singulating or singulate or<br>singulation) near4 lead adj frame | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/11 11:23 |
| S17 | 1     | S10 and S16   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/11 11:23 |
| S18 | 67    | S12 and S3  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/11 11:30 |
| S19 | 4     | ("5646315").URPN.   | USPAT   | OR | ON | 2006/02/11 11:49 |
| S20 | 8604  | synthetic adj oil   | USPAT   | OR | ON | 2006/02/11 12:04 |

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|     |       |  |   |    |    |                  |
|-----|-------|--|---|----|----|------------------|
| S21 | 0     | S3 and S20                             | USPAT   | OR | ON | 2006/02/11 11:49 |
| S22 | 3122  | cooling adj oil                        | USPAT   | OR | ON | 2006/02/11 11:50 |
| S23 | 3     | S3 and S22                             | USPAT   | OR | ON | 2006/02/11 11:51 |
| S24 | 5     | (size or grain) near diamond adj blade | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/11 11:51 |
| S25 | 26634 | saw adj blade                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/11 12:04 |
| S26 | 2     | synthetic adj oil and S25              | USPAT   | OR | ON | 2006/02/11 12:06 |
| S27 | 258   | sintilo or miracol or castrol          | USPAT   | OR | ON | 2006/02/11 12:07 |
| S28 | 4     | S25 and S27                            | USPAT   | OR | ON | 2006/02/11 12:07 |
| S29 | 0     | diamond adj blade and S27              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/11 12:08 |
| S30 | 5094  | oil near4 water adj mixture            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/11 12:08 |
| S31 | 1781  | diamond adj blade                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/11 12:08 |
| S32 | 0     | S31 and S30                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/11 12:08 |
| S33 | 0     | diamond adj blade and S30              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/11 12:09 |

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|     |       |   |   |    |     |                  |
|-----|-------|---|---|----|-----|------------------|
| S34 | 5     | S25 and S30   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/02/11 12:09 |
| S35 | 53323 | cooling adj fluid   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/02/11 12:10 |
| S36 | 17    | S31 and S35   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/02/11 12:13 |
| S37 | 3269  | oil adj water adj mixture   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/02/11 12:13 |
| S38 | 1237  | S31 and "14"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/02/11 12:13 |
| S39 | 0     | S31 and S37   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/02/11 12:13 |
| S40 | 12    | ((("6413150") or ("2001005601")<br>or ("5678466") or ("6105567") or<br>("2002109973"))).PN. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/02/11 12:37 |
| S41 | 129   | weekamp.in.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/02/11 12:43 |

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|     |        |                              |   |    |    |                  |
|-----|--------|------------------------------|---|----|----|------------------|
| S42 | 4      | blade and S41                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/11 12:48 |
| S43 | 20416  | phillips.as.                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/11 12:46 |
| S44 | 1781   | diamond adj blade            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/11 12:45 |
| S45 | 4      | S44 and S43                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/11 12:45 |
| S46 | 114    | phillips adj electronics.as. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/11 12:46 |
| S47 | 100788 | philips.as.                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/11 12:46 |
| S48 | 1      | S44 and S47                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/11 12:47 |
| S49 | 3      | S42 and S47                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/11 12:47 |

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|     |         |                                      |   |    |    |                  |
|-----|---------|--------------------------------------|---|----|----|------------------|
| S50 | 53323   | cooling adj fluid                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/11 12:47 |
| S51 | 71      | S50 and S47                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/11 12:47 |
| S52 | 836150  | blade                                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/11 12:48 |
| S53 | 9       | S51 and S52                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/11 12:48 |
| S54 | 91      | grain adj size and diamond adj blade | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/11 15:40 |
| S55 | 1639022 | semiconductor                        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/11 15:40 |
| S56 | 43      | S54 and S55                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/11 15:41 |
| S57 | 15809   | kerf                                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/11 15:42 |

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|     |       |  |   |    |     |                  |
|-----|-------|--|---|----|-----|------------------|
| S58 | 1     | S56 and S57  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/02/11 15:42 |
| S59 | 1361  | lead adj frame near4 etching   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/02/11 16:02 |
| S60 | 335   | lead adj frame near etching  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/02/11 16:02 |
| S61 | 0     | (dicing or singulation or singulating) and (lead adj frame or leadframe) and (diamond adj blade) and cooling and fluid and (encapsulation or encapsualting or encapsulant) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/06/13 09:41 |
| S62 | 4     | (dicing or singulation or singulating) and (lead adj frame or leadframe) and (diamond adj blade) and (encapsulation or encapsualting or encapsulant)                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/06/13 09:43 |
| S63 | 3466  | (438/106).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/06/13 09:43 |
| S64 | 630   | (438/465).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/06/13 15:11 |
| S65 | 29446 | diamond and cooling  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/06/13 14:02 |

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|     |        |  |   |    |     |                  |
|-----|--------|--|---|----|-----|------------------|
| S66 | 13     | S64 and S65  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/06/13 14:02 |
| S67 | 0      | ((encapsulant or encapsulating or encapsulation) and diamond and (dicing or saw) and (coolant or liquid) and carrier).clm. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/06/14 07:50 |
| S68 | 0      | liquid adj cooled adj diamond adj saw  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/06/14 07:31 |
| S69 | 270    | (438/114).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/06/14 07:48 |
| S70 | 92874  | water adj cooled or liquid adj cooled  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/06/14 07:49 |
| S71 | 4689   | diamond adj saw or diamond adj blade   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/06/14 07:49 |
| S72 | 166    | S70 and S71  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/06/14 07:49 |
| S73 | 146303 | encapsulant or encapsulating or encapsulation  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/06/14 07:51 |



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|     |   |             |   |    |    |                  |
|-----|---|-------------|---|----|----|------------------|
| S74 | 9 | S72 and S73 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/14 07:51 |
|-----|---|-------------|---|----|----|------------------|